*** BLD Lab Resource Guide to GEE ***

Document containing useful links to all things GEE-tutorial related. Learn from videos, lab-style guides, scripts, and more! Please contribute any and all links you found helpful and include a short description of what they are. Email [nmannin4@kent.edu](mailto:nmannin4@kent.edu) for questions or contributions.

**Videos:**

* [Geospatial Ecology and Remote Sensing (GEARS)](https://www.youtube.com/watch?v=2i6cw7nTbhI&list=PLf6lu3bePWHCKAoGx0iDYElctyw3g07ge):
  + 10-Episode Environmental Monitoring series, each episode is an in-depth exploration of one topic. First episode is an introduction to Google Earth Engine
* [Opal Maps](https://www.youtube.com/watch?v=uHtehTSw7vg&t=1s):
  + 4-Part Series with topics including: Introducing GEE (1), Filtering & Displaying Data (2), Calculating with Images and Bands (3), and Mapping Functions over Collections (4)

**GitHub:**

* [giswqs/Awesome-GEE: A curated list of Google Earth Engine resources](https://github.com/giswqs/Awesome-GEE)
  + One of the most comprehensive collections of GEE resources. Includes introductory resources; tutorials for R, Python, QGIS, and Java APIs; as well as projects, code snippets, papers, presentations of work using GEE, and more!
* [GEE Toolbox](https://github.com/sacridini/GEET)
  + Running / installing this toolbox provides custom functions with lots less code
* [GEEmap for Python](https://github.com/giswqs/geemap/tree/master/examples)
  + Guide for running GEE through python using the ‘geemap’ package. If anyone ever wants to start using Python for GEE, here’s the place to start

**Slides:**

* [GEE Remote Sensing](https://developers.google.com/earth-engine/tutorials/edu#introductory-remote-sensing-lectures)
  + From UC San Diego, 10 slide presentations ranging from introductory GEE and remote sensing to detecting built environments. Each presentation is ~40 slides with screenshots of the code and results in the slideshow

**Lab-Style Tutorials:**

* [Remote Sensing with GEE](https://drive.google.com/drive/folders/1lvsQSRnXQULYkHMB9kGBLIXXm4BTXSpi)
  + From SUNY-ESF, a set of 4 PDF’s to walk through. Starts with an introduction (1) and covers projections and pre-processing (2), image processing (3), and supervised/unsupervised classification and time-series analysis (4)
* [AmericaView Lessons](https://americaview.org/program-areas/education/google-earth-engine-tutorials/)
  + Sets of 7 tutorials and 4 labs. Start with Lab 1 (not Lab 0), Lab 0 includes more advanced topics

**Script-Style Tutorials in GEE (requires active GEE account):**

* [GEE 101](https://code.earthengine.google.com/?accept_repo=users/gmiceli/ee101)
  + Set of 15 independent scripts covering different topics. Starts with an introduction script. Useful for re-typing to learn and being able to run different functions.
* [GEE with BLD](https://code.earthengine.google.com/?accept_repo=users/nmannin4/GEE_Tutorials)
  + GEE tutorials and scripts containing useful functions found by members of the Biogeography & Landscape Dynamics Lab. Email [nmannin4@kent.edu](mailto:nmannin4@kent.edu) or shoot me a message if you want to edit / add a script and cannot